

81

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/813,378	VOGMAN, VIKTOR D.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Jeffrey L. Sterrett	2838	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

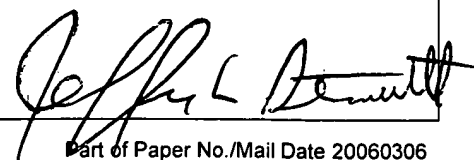
4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date 3/30/04 | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                       | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

**Jeffrey Sterrett**  
**Primary Examiner**



Art Unit: 2838

An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

### EXAMINER'S AMENDMENT

#### In The Claims

Claim 1 , Line 3 " primary windings " has been changed to -- primary winding -  
 --.  
 , Line 3 " secondary windings " has been changed to -- secondary  
 winding --.  
 , Line 4 " windings " has been changed to -- winding --.  
 , Line 6 " windings " has been changed to -- winding --.  
 , Line 7 " windings, " has been changed to -- winding, --.  
 , Line 7 " primary windings " has been changed to -- primary winding,  
 --.  
 , Line 14 " windings " has been changed to -- winding --.  
 , Line 15 " windings " has been changed to -- winding --.  
 Claim 3 , Line 3 " windings " has been changed to -- winding --.  
 , Line 5 " windings " has been changed to -- winding --.  
 Claim 4 , Line 2 " windings " has been changed to -- winding --.  
 , Line 3 " windings " has been changed to -- winding --.  
 , Line 5 " windings and " has been changed to -- winding and --.  
 , Line 5 " secondary windings " has been changed to -- secondary  
 winding --.  
 Claim 9 , Line 2 " windings " has been changed to -- winding --.  
 , Line 3 " windings " has been changed to -- winding --.  
 , Line 5 " windings " has been changed to -- winding --.  
 , Line 6 " windings " has been changed to -- winding --.  
 , Line 7 " windings, " has been changed to -- winding, --.  
 , Line 8 " secondary windings " has been changed to -- secondary  
 winding, --.  
 , Line 8 " primary windings " has been changed to -- primary winding -  
 --.  
 Claim 10 , Line 2 " windings " has been changed to -- winding --.  
 , Line 5 " windings " has been changed to -- winding --.  
 Claim 11 , Line 3 " windings " has been changed to -- winding --.  
 , Line 4 " windings " has been changed to -- winding --.  
 , Line 6 " windings and " has been changed to -- winding and --.  
 , Line 6 " secondary windings " has been changed to -- secondary  
 winding --.  
 Claim 18 , Line 2 " windings " has been changed to -- winding --.

Art Unit: 2838

, Line 3 "windings" has been changed to -- winding --.  
, Line 5 "windings" has been changed to -- winding --.  
, Line 6 "windings" has been changed to -- winding --.  
, Line 7 "windings," has been changed to -- winding, --.  
, Line 8 "secondary windings" has been changed to -- secondary winding, --.  
, Line 8 "primary windings" has been changed to -- primary winding --.  
Claim 19 , Line 2 "windings" has been changed to -- winding --.  
, Line 5 "windings" has been changed to -- winding --.

In The Drawings

Note attached copies of the drawings corrected in red.

Authorization for this Amendment was given in a telephone interview with Nandu Talwalkar on March 6, 2006.

REASONS FOR ALLOWANCE

The claimed invention of an apparatus is found to be allowable over the prior art since an apparatus comprising a first switch coupled in series to a first transformer primary winding, a second switch coupled in series to a second transformer primary winding, a control circuit controlling the first and second switches, a first load coupled to the circuit input node when the first switch is conductive and coupled to ground when the second switch is conductive in order to receive a first current, a circuit coupled to the first and second transformer secondaries, and a second load coupled to the circuit to receive a second current proportional to the first current as recited by claims 1-6 was not found to be singularly or collectively taught by the prior art.

The claimed invention of an apparatus is found to be allowable over the prior art since an apparatus comprising a voltage regulator having a high side power transistor generating a high side AC and a low side power transistor generating a low side AC, a

Art Unit: 2838

current sensor circuit generating first and second AC based on the high and low side AC, a rectifier generating DC from the first and second AC, and a resistive element receiving the DC wherein the voltage across the resistive element is proportional to the supply voltage as recited by claims 7-13 was not found to be singularly or collectively taught by the prior art.

The claimed invention of claims 14 and 15 of a method is found to be allowable over the prior art since a method essentially setting forth the methodology of the apparatus recited by claims 7-13 was not found to be singularly or collectively taught by the prior art.

The claimed invention of claims 16-20 of a system is found to be allowable over the prior art since a system comprising the apparatus of claims 7-13 was not found to be singularly or collectively taught by the prior art.

Shibata et al (US 4,095,166), Massie (US 5,455,501), Doluca (US 5,532,577), Schwartz (US 5,552,695), Chen (US 6,479,972), and McGinnis (US 6,756,772) are cited to show a regulator apparatus having plural loads old and known in the art at the time of the invention.

Schwartz et al (US 5,808,455), Tabata et al (US 5,936,387), Kataoka (US 6,765,371), Umemoto (US 6,815,939), Wang (US 6,930,474), Kohout et al (US 6,995,483), and Mizoguchi et al (US 7,006,362) are cited to show a regulator apparatus having current sensors old and known in the art at the time of the invention.

McDonald et al (US 6,600,298), Solivan (US 6,707,281), and Talbot et al (US 6,865,682) are cited to show microprocessor systems having voltage regulators old and known in the art at the time of the invention.

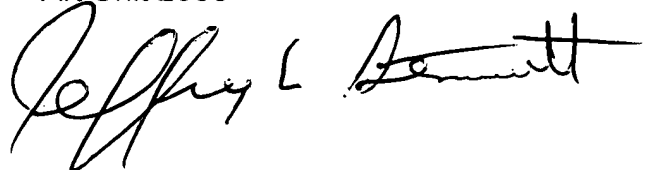
Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey L. Sterrett whose telephone number is (571) 272-2085. The examiner can normally be reached on Monday-Thursday & 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl D. Easthom can be reached on (571) 272-1989. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey L. Sterrett  
Primary Examiner  
Art Unit 2838

A handwritten signature in black ink, appearing to read "Jeffrey L. Sterrett", is written over the typed name and title.

Examiner's Amendment  
Attachment To Paper #20060306

Approved  
JL  
3/6/06

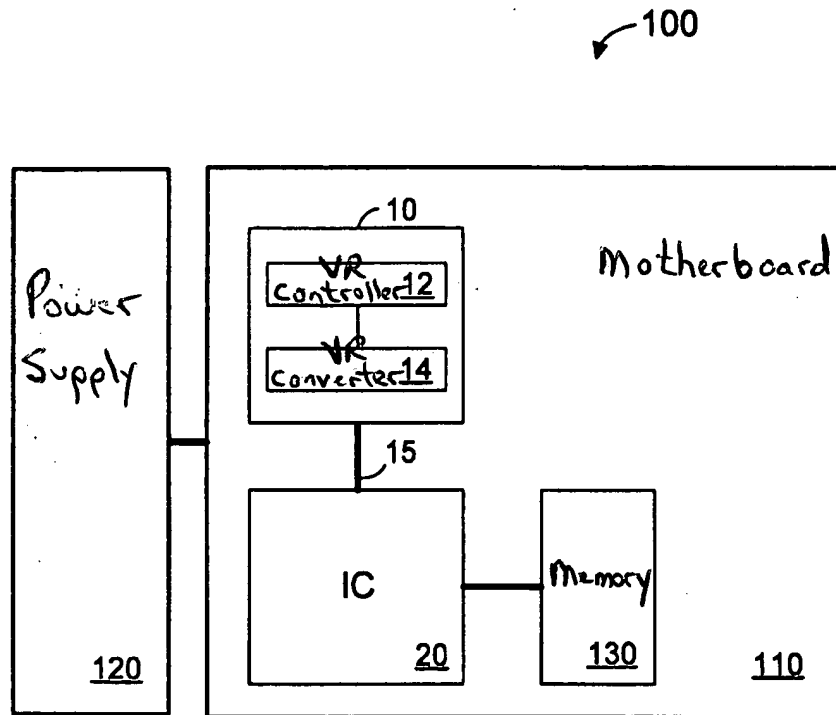


FIG. 5